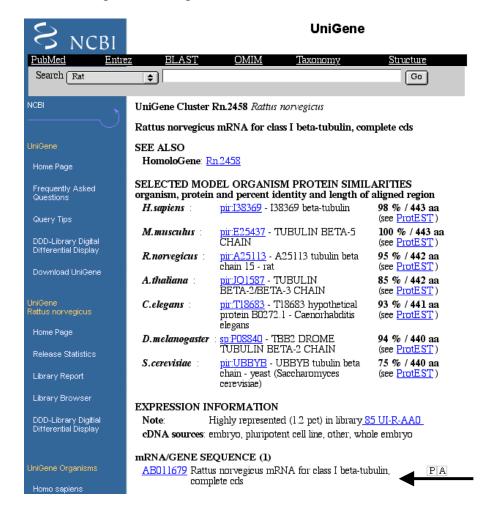
Sequence Homology Determination

(The example provided is aimed at finding a yeast ORF if given a rat accession number. This can be easily modified for other species combinations.)

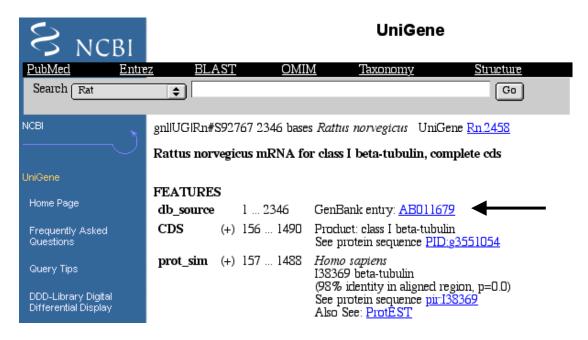
Given the rat accession number: AA858888

- 1) Go into UniGene at http://www.ncbi.nlm.nih.gov/UniGene
- 2) Choose the rat species.
- 3) Enter the accession number and press Go.

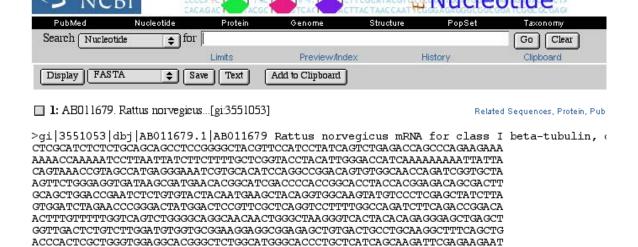
You should get something like this:



4) Click under the mRNA/gene sequence to select clone. By clicking on the gene to get the sequence, you should get something like this:

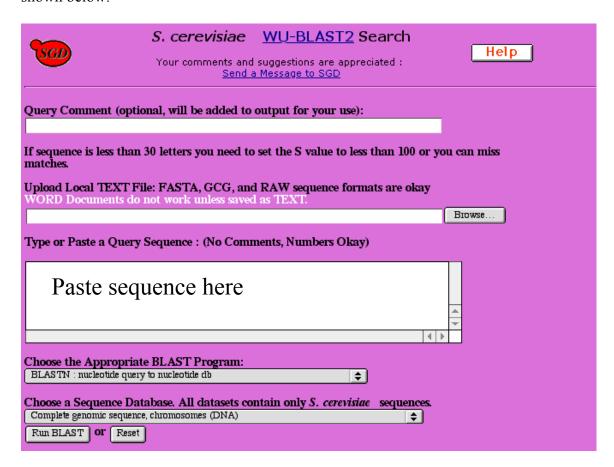


5) Go ahead and click on the GenBank entry to get the DNA sequence.

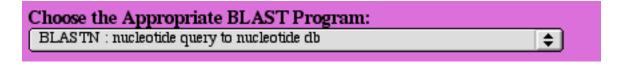


6) On the next page, change the viewing options from GenBank to FASTA format and hit "display". You should get the desired sequence that you want to blast.

 7) In the case of blasting against yeast, go to this website: http://genome-www2.stanford.edu/cgi-bin/SGD/nph-blast2sgd and paste your sequence in the box shown below:



8) Under the "choose the appropriate BLAST program" go ahead and choose the appropriate BLAST Program:



9) Under Sequence database, choose the appropriate database:



10) Press Run Blast. You should get something like this, giving you yeast ORF identifiers for top hits with some vital statistics:

